

PATENT APPLICATION #10

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Christian LAROQUE et al

Attorney Docket Q59841

Appln. No.: 09/605,881

Group Art Unit:

Filed: June 29, 2000

Examiner:

FAX RECEIVED

JAN 30 2001

PETITIONS OFFICE

For: METHOD OF MONITORING THE USE OF A CHARGEABLE DYNAMIC  
SIGNALING PORT OF AN INTER-EXCHANGE TRUNK

RENEWED PETITION UNDER 37 CFR 1.47(a) IN RESPONSE TO DECISION  
MAILED OCTOBER 25, 2000

## OFFICE OF PETITIONS

Assistant Commissioner for Patents

Box DAC

Washington, D.C. 20231

Sir:

A petition was filed September 21, 2000 seeking to permit examination of this application to proceed without the execution of an oath or declaration by one of the inventors, Christian Laroque. In a Decision mailed October 25, that petition was denied on the grounds that it was not clear from the petition if the inventor had been presented with a complete set of application papers when his signature was sought.

As explained in the new DECLARATION accompanying this renewed petition, the inventor had already reviewed and understood a French version of the specification, and may therefore have not been presented with the English version at the time his signature was sought. But to be certain of compliance with USPTO requirements, the assignee has since that time sent


Renewed Petition Under 37 C.F.R. § 1.47(a)...  
USSN 09/605,881

a complete copy of the application papers to the unwilling inventor, on November 14, 2000. The inventor has again refused to execute the papers.

In light of the accompanying evidence submitted, it is again requested that examination of the present application be permitted to proceed under 37 CFR 1.47(a).

Please charge any additional fees under 37 C.F.R. § 1/17 or 1.17 necessary to keep this application pending in the Patent and Trademark Office or credit any overpayment to Deposit Account No. 19-4880. A duplicate copy of this sheet is enclosed.

Respectfully submitted,



David J. Cushing  
Registration No. 28,703

SUGHRUE, MION, ZINN,  
MACPEAK & SEAS, PLLC  
2100 Pennsylvania Avenue, N.W.  
Washington, D.C. 20037-3202  
Telephone: (202) 293-7060  
Facsimile: (202) 293-7860  
Date: January 30, 2001

**PATENT APPLICATION****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Christian LAROQUE et al

Attorney Docket Q59841

Appl. No.: 09/605,881

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Filed: June 29, 2000

Examiner:

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**JAN 30 2001**

**PETITIONS OFFICE**

For: **METHOD OF MONITORING THE USE OF A CHARGEABLE DYNAMIC  
SIGNALING PORT OF AN INTER-EXCHANGE TRUNK**

**DECLARATION**

I, Michèle Bruneel, hereby declare that:

1. I am employed by Alcatel, the owner of the above application.
2. The two inventors of the above application are Christian Laroque and Lahcen Bennai.
3. Both of the inventors were employed by Alcatel Business Systems, a subsidiary of Alcatel.
4. On May 3, 2000, I sent the Declaration and Power of Attorney to Mr. Xavier De Fay, Alcatel Business Systems, for execution by the two inventors. Attached as Exhibit 1 is a copy of the relevant correspondence. Mr. Laroque had already reviewed an exact French translation of the present application. The Declaration was returned to me with the signature of only Lahcen Bennai, and I was advised that Mr. Christian Laroque was no longer employed by Alcatel Business Systems, and I was also advised of his new home address in Germany.
6. On May 29, 2000, Mr. Christian Laroque sent me an email concerning another U.S. patent application (U.S. Appl. No. 09/605,434) in which he is refusing to sign the Declaration and Power of Attorney due to a dispute with Alcatel over the payment of bonuses to departed employees. In this same email, Mr. Laroque refers to another case where he had received a request directly from Alcatel Business Systems for execution of papers, and indicates that he is also refusing to sign and return the Declaration and Power of Attorney for

Appl. No. 09/605,881

Declaration

Page 2

that case. That other case is the present application, No. 09/605,881. This email is attached hereto as Exhibit 2. Exhibit 3 is an English translation of the text of Exhibit 2.

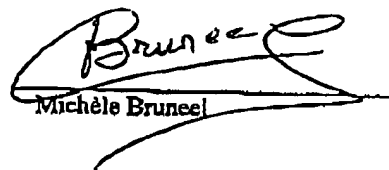
7. On November 14, 2000, I forwarded a complete copy of the Appl. No. 09/605,881 to M. Laroque along with a Declaration and Power of Attorney. A copy of the accompanying letter is attached hereto as Exhibit 4, with and a Post Office register evidencing that the letter was sent being attached here as Exhibit 5.

8. On December 15, 2000, we received an email (copy attached as Exhibit 6) from M. Laroque stating that he had received the application papers but, as he had indicated earlier, he refuses to sign the papers. Exhibit 7 is an English translation of the text of Exhibit 6.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date: January 23, 2001

By:

  
Michèle Bruneel

07-07-2000

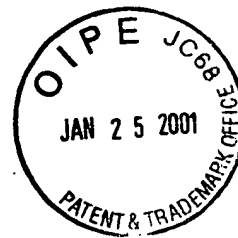
14:59

ALCATEL DPI

A

2022937860

P.03/08

**ALCATEL****MEMO**

Pour : Xavier de FAY

ALCATEL BUSINESS SYSTEMS

Fax : +33 (0)1 55 66 43 91

De : Michèle BRUNEEL

Département Propriété Industrielle, Paris

Tél : 2155 64 14

Fax : 2155 63 22

E-Mail : michèle.bruneel@alcatel.fr

Date: 3 mai 2000

**RECEIVED**  
JAN 31 2001  
Technology Center 2600

N/Réf. : 102531/ES/ESD/MBJ

<b>Titre :</b>	PROCEDE DE CONTROLE DE L'EXPLOITATION D'UN ACCES, A SIGNALISATION DYNAMIQUE PAYANTE, RELATIF A UNE ARTERE RELIANT DES AUTOCOMMUTATEURS
<b>Inventeurs</b>	Christian LAROQUE Lahcen BENNAI

**Objet : Déclaration et Assignment pour les USA**

Veuillez trouver ci-joint la Déclaration et l'Assignment nécessaires au dépôt d'une demande de brevet aux Etats-Unis pour l'invention ci-dessus référencée.

Merci de nous retourner ces documents dûment remplis et signés par les inventeurs avant le  
31 MAI 2000

A l'adresse suivante :

COMPAGNIE FINANCIERE ALCATEL  
DPI  
30 avenue Kléber  
75116 PARIS

**RECEIVED**

FEB 05 2001

OFFICE OF PETITIONS

*Exhibit 1*

## Assignment

Whereas I/We

Christian LAROQUE  
Lahcen BENNAI

hereinafter called assignor(s), have invented certain improvements in

and executed an application for Letters Patent of the United States of America therefor identified by Attorney Docket No. **102531/ES/ESD**

Whereas, ALCATEL

54, rue La Boétie  
75008 PARIS  
FRANCE

hereinafter called assignee,

desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and I/we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request my attorneys SUGHRUE, MION, ZINN, MACPEAK & SEAS of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3202 to insert here in parentheses (Application number \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known.

Date :

S/

Christian LAROQUE

Date : 12.5.2000

S/

Lahcen BENNAI

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

**French Language Declaration****Declaration and Power of Attorney for Patent Application****Déclaration et Pouvoirs pour Demande de Brevet****French Language Declaration**

En tant que l'inventeur nommé ci-après, je déclare par le présent acte que:

As a below named inventor, I hereby declare that:

Mon domicile, mon adresse postale et ma nationalité sont ceux figurant ci-dessous à côté de mon nom.

My residence, post office address and citizenship are as stated next to my name.

Je crois être le premier inventeur original et unique (si un seul nom est mentionné ci-dessous), ou l'un des premiers co-inventeurs originaux (si plusieurs noms sont mentionnés ci-dessous) de l'objet revendiqué, pour lequel une demande de brevet a été déposée concernant l'invention de la description identifiée par le numéro de référence

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention in the specification identified by Docket No.

**102531/ES/ESD**

Je déclare par le présent acte avoir passé en revue et compris le contenu de la description ci-dessus, revendications comprises.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims.

Je reconnais devoir divulguer toute information pertinente à la brevetabilité, comme défini dans le Titre 37, § 1.56 du Code fédéral des réglementations.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

Je revendique par le présent acte avoir la priorité étrangère, en vertu du Titre 35, § 119(a)-(d) ou § 365(h) du Code des Etats-Unis, sur toute demande étrangère de brevet ou certificat d'inventeur ou, en vertu du Titre 35, § 365(a) du même Code, sur toute demande internationale PCT désignant au moins un pays autre que les Etats-Unis et figurant ci-dessous et, j'ai aussi indiqué ci-dessous toute demande étrangère de brevet, tout certificat d'inventeur ou toute demande internationale PCT ayant une date de dépôt précédant celle de la demande à propos de laquelle une priorité est revendiquée.

I hereby claim foreign priority under Title 35, United States Code, § 119(a)-(d) or § 365(h) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Prior foreign application(s) for which priority is claimed  
Demande(s) de brevet étrangère(s) antérieure(s) dont la priorité est revendiquée

(Number) (Numéro)	(Country) (Pays)	(Day/Month/Year Filed) (Jour/Mois/Année de dépôt)
99 08 499	FRANCE	01 JULY 1999

Prior foreign applications for which priority is not claimed  
Demande(s) de brevet étrangères antérieure(s) dont la priorité n'est pas revendiquée

(Number) (Numéro)	(Country) (Pays)	(Day/Month/Year Filed) (Jour/Mois/Année de dépôt)

**French Language Declaration**

Je revendique par le présent acte tout bénéfice, en vertu du Titre 35, § 119(e) du Code des Etats-Unis, de toute demande de brevet provisoire effectuée aux Etats-Unis et figurant ci-dessous.

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below.

(Application No.)  
(No de demande)

(Filing Date)  
(Date de dépôt)

Je revendique par le présent acte tout bénéfice, en vertu du Titre 35, § 120 du Code des Etats-Unis, de toute demande de brevet effectuée aux Etats-Unis, ou en vertu du Titre 35, § 365(c) du même Code, de toute demande internationale PCT désignant les Etats-Unis et figurant ci-dessous et, dans la mesure où l'objet de chacune des revendications de cette demande de brevet n'est pas divulgué dans la demande antérieure américaine ou internationale PCT, en vertu des dispositions du premier paragraphe du Titre 35, § 112 du Code des Etats-Unis, je reconnais devoir divulguer toute information pertinente à la brevetabilité, comme défini dans le Titre 37, § 1.56 du Code fédéral des réglementations, dont j'ai pu disposer entre la date de dépôt de la demande antérieure et la date de dépôt de la demande nationale ou internationale PCT de la présente demande.

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

(Application No.)  
(NO de demande)

(Filing Date)  
(Date de dépôt)

(Status)(patented, pending, abandoned)  
(Statut)(breveté, en cours d'examen, abandonné)

Je déclare par le présent acte que toute déclaration ci-incluse est, à ma connaissance, véridique et que toute déclaration formulée à partir de renseignements ou de suppositions est tenue pour véridique; et de plus, que toutes ces déclarations ont été formulées en sachant que toute fausse déclaration volontaire ou son équivalent est passible d'une amende ou d'une incarcération, ou des deux, en vertu de la Section 1001 du Titre 18 du Code des Etats-Unis, et que de telles déclarations volontairement fausses risquent de compromettre la validité de la demande de brevet ou du brevet délivré à partir de celle-ci.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.



# French Language Declaration

**POUVOIRS:** En tant que l'inventeur cité, je désigne par la présente l'(les) avocat(s) et/ou agent(s) suivant(s) pour qu'ils poursuive(nt) la procédure de cette demande de brevet et traite(nt) toute affaire s'y rapportant avec l'Office des brevets et des marques: (mentionner le nom et le numéro d'enregistrement).

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: (list name and registration number)

John H. Mion, Reg. No. 18,879; Thomas J. Macpeak, Reg. No. 19,292; Robert J. Seas, Jr., Reg. No. 21,092; Darryl Mexic, Reg. No. 23,063; Robert V. Sloan, Reg. No. 22,775; Peter D. Olexy, Reg. No. 24,513; J. Frank Osha, Reg. No. 24,625; Waddell A. Higgart, Reg. No. 24,861; Louis Gubinsky, Reg. No. 24,835; Neil B. Siegel, Reg. No. 25,200; David J. Cushing, Reg. No. 28,703; John R. Inge, Reg. No. 26,916; Joseph J. Ruch, Jr., Reg. No. 26,577; Sheldon I. Landsman, Reg. No. 25,430; Richard C. Turner, Reg. No. 29,710; Howard L. Bernstein, Reg. No. 25,665; Alan J. Kasper, Reg. No. 25,426; Kenneth J. Burohfiel, Reg. No. 31,333; Gordon Kit, Reg. No. 30,764; Susan J. Mack, Reg. No. 30,951; Frank L. Bernstein, Reg. No. 31,484; Mark Boland, Reg. No. 32,197; William H. Mandir, Reg. No. 32,156; Scott M. Daniels, Reg. No. 32,562; Brian W. Hannon, Reg. No. 32,778; Abraham J. Rosner, Reg. No. 33,276; Bruce E. Kramer, Reg. No. 33,725; Paul F. Neils, Reg. No. 33,102; and Brett S. Sylvester, Reg. No. 32,765; and Robert M. Masters, Reg. No. 35,603.

Adresser toute correspondance à:

Send Correspondence to:

SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC  
2100 Pennsylvania Avenue, N.W., Suite 800  
Washington, D.C. 20037-3213

Nom complet de l'unique ou premier inventeur	Full name of sole or first inventor (First Middle Last) Christian LAROQUE
Signature de l'inventeur	Inventor's signature
Date	Date
Domicile	Residence 92500 RUEIL MALMAISON FRANCE
Nationalité	Citizenship French
Adresse postale	Post Office Address 34, avenue du Mont Valérien 92500 RUEIL MALMAISON FRANCE
Nom complet du second co-inventeur, le cas échéant	Full name of second joint inventor, if any (First Middle Last) Labcen BENNAI
Signature du second inventeur	Second inventor's signature
Date	Date
Domicile	Residence 95100 ARGENTEUIL, FRANCE
Nationalité	Citizenship French
Adresse postale	Post Office Address 68, rue Félibeu 95100 ARGENTEUIL, FRANCE

(Fournir les mêmes renseignements et la signature de tout co-inventeur supplémentaire.)

(Supply similar information and signature for third and subsequent joint inventors.)



Christian Laroque <christian.laroque@anitesystems.de> on 29/05/2000  
14:17:57

To: Michele BRUNEEL/FR/ALCATEL@ALCATEL

cc:

Subject Brevets US

102 530 et 102 531

---

Au mois de fevrier dernier, vous m'avez adresse un  
formulaire de declaration et d'assignement concernant  
le depot d'une demande de brevet aux US.  
N/Ref : 102350/ES/ESD/MBJ

J'ai quitte le groupe Alcatel au mois d'aout dernier, et ABS  
refuse de verser des primes aux salaries inventeurs ayant quitte le  
groupe.

Je ne vous ai donc pas renvoye la declaration  
et ne la renverrai pas.

J'ai recu la semaine derniere une autre demande  
du meme type, pour un autre brevet, mais cette  
fois la demande est venue directement d'ABS.

Je ne renverrai la non plus aucun papier tant que ABS  
ne consentira pas a me verser la prime qui m'est due.  
(c'est moi qui est fourni le travail qui a permis le  
depot du brevet, et je demande simplement a toucher  
les memes primes de brevet que celles qui sont recues  
par les salaries du groupe).

Salutations.

-----  
Christian Laroque

Phone: + 49-6151-872-5137

Anite Systems GmbH

Fax: + 49-6151-872-5151

Robert Bosch Str 7

D-64293 Darmstadt, Germany

ALCATEL

*DIC  
Dcc. 10/20*

Département Propriété  
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30, avenue Kléber  
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Tél. : + 33 (0)1 40 67 63 00  
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Mr Christian Laroque  
c. o. Mr Hans Partmann  
Dielmann Strasse 18  
60599 FRANKFURT AM  
Allemagne

Registered letter with advise of reception

Paris, 14 November 2000

Our ref. : 102531 / ES / eND


Subject : US Patent Application n° 09/605.881 filed on June 29, 2000

Dear Sir,

In order to comply with the US regulations, we formally send you herewith a complete US patent application (English specification and drawings as filed), and a new Declaration and Power of Attorney for the above referenced US patent application.

You are kindly requested to read them, then date and sign page 3 of the Declaration and Power of Attorney.

Yours faithfully,



Edmond SCIAUX  
Intellectual Property Department

Encl. : As mentioned above.

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FEB 05 2001

OFFICE OF PETITIONS

*Exhibit 5*

102531/ES/ESD

ABSTRACT OF THE DISCLOSURE

To monitor the use of a chargeable dynamic signaling port of a trunk connecting two exchanges, in particular in connection with applications which communicate via exchanges and which are likely to require to use such ports, rights of use are assigned to each application enabling it either to have a port of this kind set up and then to use it, or only to use a port of this kind if it has already been set up.

102531/ES/ESD

METHOD OF MONITORING THE USE OF A CHARGEABLE DYNAMIC SIGNALING  
PORT OF AN INTER-EXCHANGE TRUNK

BACKGROUND OF THE INVENTION

Field of the invention

5 The invention relates to a method of monitoring the use of a chargeable dynamic signaling port of a trunk connecting exchanges in a telecommunications network.

Description of the prior art

10 The introduction of trunks connecting exchanges which have at least one chargeable dynamic signaling port leads to the need to be able to monitor the use of such ports so that those paying for their use can control their costs. This was not the case previously, when the trunks between exchanges were systematically kept active, when they were in service, as was the case in particular in older synchronous time-division switching networks.

15 It has therefore become necessary to be able to monitor the use of such chargeable dynamic ports to prevent them being set up and used by applications, for example periodic maintenance or management applications, for non-urgent transmissions, possibly at low bit rates. Using ports set up in this way can hardly be economic.

20 SUMMARY OF THE INVENTION

The invention therefore proposes a method of monitoring the use of a chargeable dynamic signaling port of a trunk connecting two exchanges, in particular in connection with applications which communicate via exchanges and which are likely to require to use such ports, in which method there is provision for assigning  
25 rights of use to each application enabling it either to have a port of this kind set up and then to use it or only to use a port of this kind if it has already been set up.

According to one feature of the method according to the invention there is provision for immediately informing applications likely to require to use a chargeable dynamic signaling port that a port of this kind has been set up to enable said  
30 applications to use said port as fully as possible.

According to one feature of the method according to the invention the right assigned to an application is monitored in the exchange initiating a call request to set up a call via a chargeable dynamic signaling port of this kind and the same application possibly has a different right according to the exchange from which the  
35 setting up of a call is initiated.

According to one feature of the method according to the invention there is provision for assigning rights of use in time periods that can be changed.

The invention, its features and its advantages are explained in the following description, which is given with reference to the drawings listed below.

5 **BRIEF DESCRIPTION OF THE DRAWING**

Figure 1 is a block diagram of a telecommunications network structure with two exchanges.

Figure 2 is a block diagram of a port monitoring system as used by the monitoring method of the invention.

10 **DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT**

The method according to the invention of monitoring the use of ports is intended to be applied in the situation of a telecommunications network in which at least two exchanges, such as the two exchanges 1 and 1' shown diagrammatically in Figure 1, are connected by a trunk 2 which has ports at least some of which are of the chargeable and dynamic signaling type, such as the ports A1 and A'1, for example. Chargeable and dynamic signaling ports can be set up and deactivated on demand and as required. This is known in the art. In the context of the trunk 2, they can coexist with other ports which are set up permanently when they first enter service.

20 As a general rule the ports of the trunk 2 are used to set up calls, in particular voice and/or data calls, and to transmit signaling via circuits which constitute the trunk. Those circuits can be operated differently and possibly of different kinds. This is known in the art. Each exchange is assumed to have corresponding dedicated ports. In particular, it is usual for transmissions to be effected via the trunk 2 from one of the exchanges 1 or 1' or possibly from and/or to another exchange such as the exchange 1", for particular applications. Those applications can correspond to satisfying requirements specific to at least some users, for example a manager-secretary type application, periodic transmission of large volumes of data, etc. They can also correspond to tasks to be carried out which are specific to the network, for example user terminal supervision, call charging, operator terminal management, etc.

30 In the context of the method according to the invention, there is provision for assigning a right of use to each of the applications which may need to use a chargeable dynamic signaling port to communicate via a path using the trunk 2 and possibly via a chargeable dynamic signaling port of that trunk. For example, a path

of this kind can be set up from a port 1m of the exchange 1" and via the two exchanges 1, 1' and the trunk 2 using the chargeable dynamic signaling port A1.

5 This right of use is assigned by an authority responsible for supervising the management of the exchanges. If necessary, the right in respect of a port can be assigned to only one of the two exchanges connected by the trunk. It can also be different for the same application, according to the exchange at which a request to use the port is formulated. In this example, and as shown diagrammatically in Figure 2, the rights of use assigned to the applications are stored in a database. They are preferably stored in the exchange(s) through which an application can initiate a call request to set up a call via a path using a chargeable dynamic signaling port.

10 The rights assigned to each application to use one or more chargeable dynamic signaling ports are stored in a database 3 which is accessible by the exchange(s) concerned. In a preferred embodiment of the invention a database 3 of this kind is individually associated with or integrated into each exchange and holds the data relating to the rights of the applications which can attempt to use an outgoing chargeable dynamic signaling port from the individually associated exchange.

15 In this example, an application can be authorized to use a chargeable dynamic signaling port for calls that it wishes to set up via the trunk from one or both of the two exchanges connected by the trunk, or not. There is provision for assigning rights to use a chargeable dynamic signaling port which can differ according to the application, one of these rights enabling setting up and use of a chargeable dynamic signaling port, for example, and another right allowing a port of this kind to be used only if it has already been set up.

20 There is also provision for the setting up of a chargeable dynamic signaling port by an authorized application to lead to the creation of data to be communicated to applications which can then use their right to use a chargeable dynamic signaling port already set up at one or possibly both exchanges. There is also provision for this data to be used by applications waiting to transmit data via a port of this kind to ensure as complete as possible use of the traffic capabilities offered by the port during the time for which the port remains active. A chargeable dynamic signaling port remaining active is of course conditional on the existence of traffic via that port and the port is rendered inactive as soon as possible, with a delay for returning to the inactive state which can vary as a function of the application(s) which most recently use the port to transmit data.

As symbolized in Figure 2, the method according to the invention is used at the time of each call request 4 to set up a call via a chargeable dynamic signaling port at the exchange 1, 1' or 1" initiating the call request. An access right monitoring process 5 is then undertaken in that exchange as a function of the calling application and the call request is routed (6) via the intended chargeable dynamic signaling port, or not, according to the right assigned to the application, as stored in the database 3 for the exchange. Rejection (7) of a call set up request by the access right monitoring process 5 then leads either to the application having to wait, if it only has the right to use a chargeable dynamic signaling port already set up, or by routing of the waiting application to a different port.

Finally, there is also provision for the right of use assigned to an application to be subject to a time condition and therefore to be usable by the application only within a predetermined time period, in order to limit costs and/or regulate traffic. The right of the application(s) concerned is then restricted or cancelled outside the time periods for it.



**THERE IS CLAIMED:**

1. A method of monitoring the use of a chargeable dynamic signaling port of a trunk connecting two exchanges, in particular in connection with applications which communicate via exchanges and which are likely to require to use such ports, in which method there is provision for assigning rights of use to each application enabling it either to have a port of this kind set up and then to use it or only to use a port of this kind if it has already been set up.
2. The method claimed in claim 1 wherein there is provision for immediately informing applications likely to require to use a chargeable dynamic signaling port that a port of this kind has been set up to enable said applications to use said port as fully as possible.
3. The method claimed in claim 1 wherein the right assigned to an application is monitored in the exchange initiating a call request to set up a call via a chargeable dynamic signaling port of this kind and the same application possibly has a different right according to the exchange from which the setting up of a call is initiated.
4. The method claimed in claim 1 wherein there is provision for assigning rights of use in time periods that can be changed.

FIG. 1

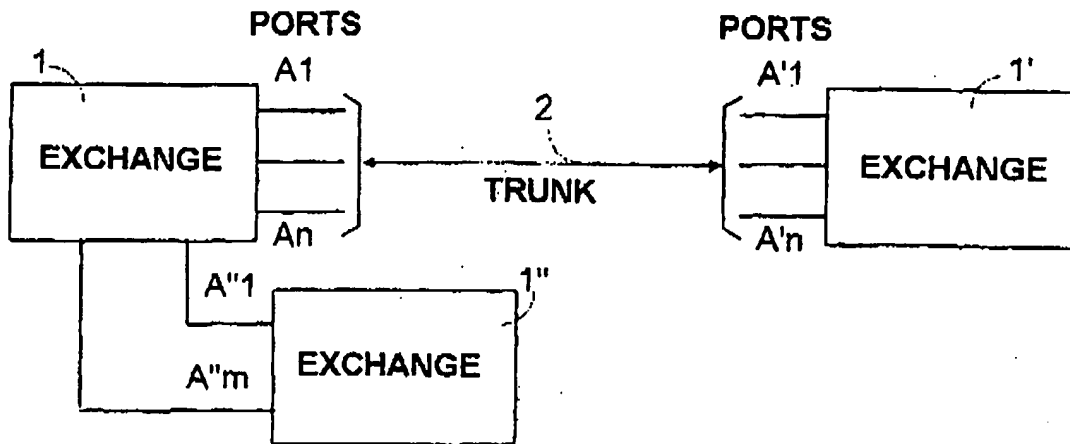
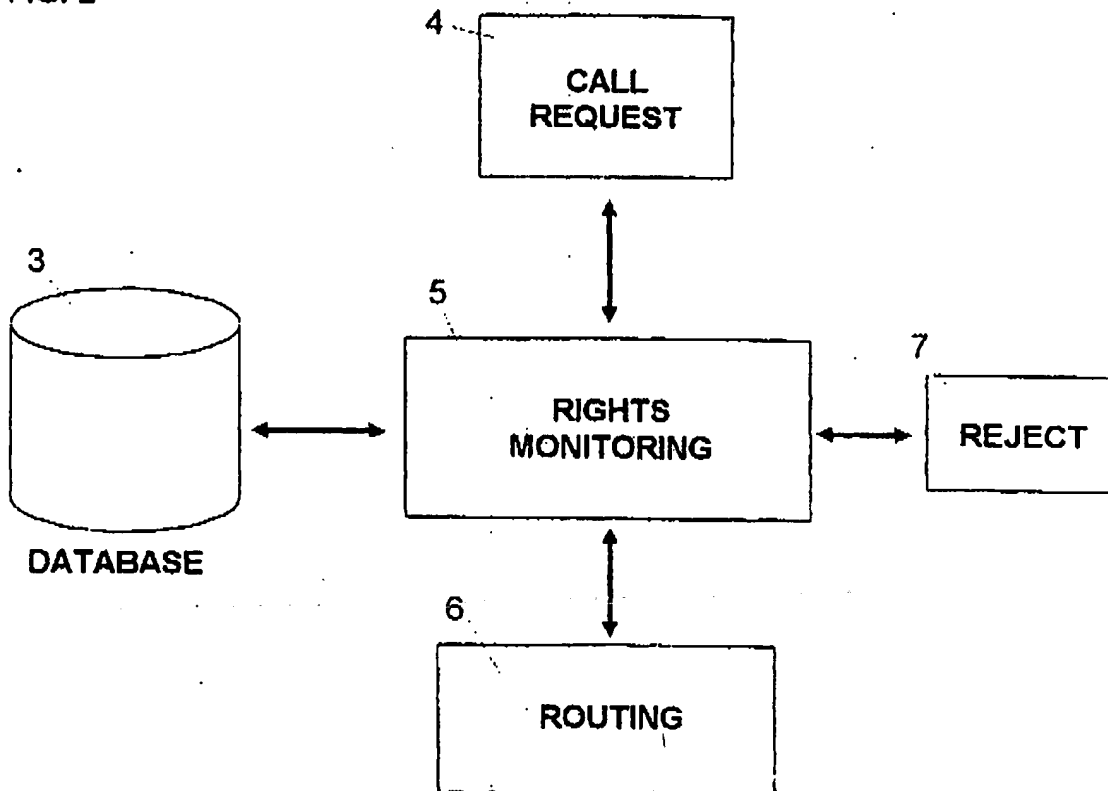


FIG. 2



## Assignment

Whereas I/We                      Christian LAROQUE  
   Lahcen BENNAI

hereinafter called assignor(s), have invented certain improvements in

and executed an application for Letters Patent of the United States of America therefor identified by Attorney Docket No. **102531/ES/ESD**

Whereas,     ALCATEL  
                 54, rue La Boétie  
                 75008 PARIS  
                 FRANCE

hereinafter called assignee,

desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and I/we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request my attorneys SUGHRUE, MION, ZINN, MACPEAK & SEAS of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3202 to insert here in parentheses (Application number \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known.

Date :                                      S/

\_\_\_\_\_  
Christian LAROQUE

Date :                                      S/

\_\_\_\_\_  
Lahcen BENNAI

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

# Declaration and Power of Attorney for Patent Application

## Déclaration et Pouvoirs pour Demande de Brevet

### French Language Declaration

En tant que l'inventeur nommé ci-après, je déclare par le présent acte que:

As a below named inventor, I hereby declare that:

Mon domicile, mon adresse postale et ma nationalité sont ceux figurant ci-dessous à côté de mon nom.

My residence, post office address and citizenship are as stated next to my name.

Je crois être le premier inventeur original et unique (si un seul nom est mentionné ci-dessous), ou l'un des premiers co-inventeurs originaux (si plusieurs noms sont mentionnés ci-dessous) de l'objet revendiqué, pour lequel une demande de brevet a été déposée concernant l'invention de la description identifiée par le numéro de référence

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention in the specification identified by Docket No.

### 102531/ES/ESD

Je déclare par le présent acte avoir passé en revue et compris le contenu de la description ci-dessus, revendications comprises.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims.

Je reconnais devoir divulguer toute information pertinente à la brevetabilité, comme défini dans le Titre 37, § 1.56 du Code fédéral des réglementations.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

Je revendique par le présent acte avoir la priorité étrangère, en vertu du Titre 35, § 119(a)-(d) ou § 365(b) du Code des Etats-Unis, sur toute demande étrangère de brevet ou certificat d'inventeur ou, en vertu du Titre 35, § 365(a) du même Code, sur toute demande internationale PCT désignant au moins un pays autre que les Etats-Unis et figurant ci-dessous et, j'ai aussi indiqué ci-dessous toute demande étrangère de brevet, tout certificat d'inventeur ou toute demande internationale PCT ayant une date de dépôt précédant celle de la demande à propos de laquelle une priorité est revendiquée.

I hereby claim foreign priority under Title 35, United States Code, § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Prior foreign application(s) for which priority is claimed

Demande(s) de brevet étrangère(s) antérieure(s) dont la priorité est revendiquée

(Number) (Numéro)	(Country) (Pays)	(Day/Month/Year Filed) (Jour/Mois/Année de dépôt)
99 08 499	FRANCE	01 JULY 1999

Prior foreign applications for which priority is not claimed

Demande(s) de brevet étrangères antérieure(s) dont la priorité n'est pas revendiquée

(Number) (Numéro)	(Country) (Pays)	(Day/Month/Year Filed) (Jour/Mois/Année de dépôt)

Je revendique par le présent acte tout bénéfice, en vertu du Titre 35, § 119(e) du Code des Etats-Unis, de toute demande de brevet provisoire effectuée aux Etats-Unis et figurant ci-dessous.

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below.

(Application No.)  
(No de demande)

(Filing Date)  
(Date de dépôt)

Je revendique par le présent acte tout bénéfice, en vertu du Titre 35, § 120 du Code des Etats-Unis, de toute demande de brevet effectuée aux Etats-Unis, ou en vertu du Titre 35, § 365(c) du même Code, de toute demande internationale PCT désignant les Etats-Unis et figurant ci-dessous et, dans la mesure où l'objet de chacune des revendications de cette demande de brevet n'est pas divulgué dans la demande antérieure américaine ou internationale PCT, en vertu des dispositions du premier paragraphe du Titre 35, § 112 du Code des Etats-Unis, je reconnais devoir divulguer toute information pertinente à la brevetabilité, comme défini dans le Titre 37, § 1.56 du Code fédéral des réglementations, dont j'ai pu disposer entre la date de dépôt de la demande antérieure et la date de dépôt de la demande nationale ou internationale PCT de la présente demande.

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

(Application No.)  
(NO de demande)

(Filing Date)  
(Date de dépôt)

(Status)(patented, pending, abandoned)  
(Statut)(breveté, en cours d'examen, abandonné)

Je déclare par le présent acte que toute déclaration ci-incluse est, à ma connaissance, véridique et que toute déclaration formulée à partir de renseignements ou de suppositions est tenue pour véridique; et de plus, que toutes ces déclarations ont été formulées en sachant que toute fausse déclaration volontaire ou son équivalent est passible d'une amende ou d'une incarcération, ou des deux, en vertu de la Section 1001 du Titre 18 du Code des Etats-Unis, et que de telles déclarations volontairement fausses risquent de compromettre la validité de la demande de brevet ou du brevet délivré à partir de celle-ci.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**POUVOIRS:** En tant que l'inventeur cité, je désigne par la présente l'(les) avocat(s) et/ou agent(s) suivant(s) pour qu'ils poursuive(nt) la procédure de cette demande de brevet et traite(nt) toute affaire s'y rapportant avec l'Office des brevets et des marques: (mentionner le nom et le numéro d'enregistrement).

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: (list name and registration number)

John H. Mion, Reg. No. 18,879; Thomas J. Macpeak, Reg. No. 19,292; Robert J. Seas, Jr., Reg. No. 21,092; Darryl Mexic, Reg. No. 23,063; Robert V. Sloan, Reg. No. 22,775; Peter D. Olexy, Reg. No. 24,513; J. Frank Osha, Reg. No. 24,625; Waddell A. Biggart, Reg. No. 24,861; Louis Gubinsky, Reg. No. 24,835; Neil B. Siegel, Reg. No. 25,200; David J. Cushing, Reg. No. 28,703; John R. Inge, Reg. No. 26,916; Joseph J. Ruch, Jr., Reg. No. 26,577; Sheldon I. Landsman, Reg. No. 25,430; Richard C. Turner, Reg. No. 29,710; Howard L. Bernstein, Reg. No. 25,665; Alan J. Kasper, Reg. No. 25,426; Keaneth J. Burchfiel, Reg. No. 31,333; Gordon Kit, Reg. No. 30,764; Susan J. Mack, Reg. No. 30,951; Frank L. Bernstein, Reg. No. 31,484; Mark Boland, Reg. No. 32,197; William H. Mandir, Reg. No. 32,156; Scott M. Daniels, Reg. No. 32,562; Brian W. Hannon, Reg. No. 32,778; Abraham J. Rosner, Reg. No. 33,276; Bruce E. Kramer, Reg. No. 33,725; Paul F. Neils, Reg. No. 33,102; and Brett S. Sylvester, Reg. No. 32,765; and Robert M. Masters, Reg. No. 35,603.

Adresser toute correspondance à:

Send Correspondence to:  
SUGHRIFF, MION, ZINN, MACPEAK & SEAS, PLLC  
2100 Pennsylvania Avenue, N.W., Suite 800  
Washington, D.C. 20037-3213

Nom complet de l'unique ou premier inventeur	Full name of sole or first inventor (First Middle Last) Christian LAROQUE
Signature de l'inventeur	Inventor's signature
Date	Date
Domicile	Residence 92500 RUEIL MALMAISON FRANCE
Nationalité	Citizenship French
Adresse postale	Post Office Address 34, avenue du Mont Valérien 92500 RUEIL MALMAISON FRANCE
Nom complet du second co-inventeur, le cas échéant	Full name of second joint inventor, if any (First Middle Last) Lahcen BENNAI
Signature du second inventeur	Second inventor's signature
Date	Date
Domicile	Residence 95100 ARGENTEUIL, FRANCE
Nationalité	Citizenship French
Adresse postale	Post Office Address 68, rue Félicien 95100 ARGENTEUIL, FRANCE

(Fournir les mêmes renseignements et la signature de tout co-inventeur supplémentaire.)

(Supply similar information and signature for third and subsequent joint inventors.)

Nom complet du troisième co-inventeur, le cas échéant		Full name of third joint inventor, if any (First Middle Last)	
Signature du troisième l'inventeur	Date	Third inventor's signature	Date
Domicile		Residence	
Nationalité		Citizenship	
Adresse postale		Post Office Address	
Nom complet du quatrième co-inventeur, le cas échéant		Full name of fourth joint inventor, if any (First Middle Last)	
Signature du quatrième l'inventeur	Date	Fourth inventor's signature	Date
Domicile		Residence	
Nationalité		Citizenship	
Adresse postale		Post Office Address	
Nom complet du cinquième co-inventeur, le cas échéant		Full name of fifth joint inventor, if any (First Middle Last)	
Signature du cinquième l'inventeur	Date	Fifth inventor's signature	Date
Domicile		Residence	
Nationalité		Citizenship	
Adresse postale		Post Office Address	
Nom complet du sixième co-inventeur, le cas échéant		Full name of sixth joint inventor, if any (First Middle Last)	
Signature du sixième l'inventeur	Date	Sixth inventor's signature	Date
Domicile		Residence	
Nationalité		Citizenship	
Adresse postale		Post Office Address	

Nom complet du septième co-inventeur, le cas échéant	Full name of seventh joint inventor, if any (First Middle Last)
Signature du septième l'inventeur	Seventh inventor's signature
Date	Date
Domicile	Residence
Nationalité	Citizenship
Adresse postale	Post Office Address
Nom complet du huitième co-inventeur, le cas échéant	Full name of eighth joint inventor, if any (First Middle Last)
Signature du huitième l'inventeur	Eighth inventor's signature
Date	Date
Domicile	Residence
Nationalité	Citizenship
Adresse postale	Post Office Address
Nom complet du neuvième co-inventeur, le cas échéant	Full name of ninth joint inventor, if any (First Middle Last)
Signature du neuvième l'inventeur	Ninth inventor's signature
Date	Date
Domicile	Residence
Nationalité	Citizenship
Adresse postale	Post Office Address
Nom complet du dixième co-inventeur, le cas échéant	Full name of tenth joint inventor, if any (First Middle Last)
Signature du dixième l'inventeur	Tenth inventor's signature
Date	Date
Domicile	Residence
Nationalité	Citizenship
Adresse postale	Post Office Address



FRANCE

PAIEMENT / INSCRIPTION D'UN MANDAT SUR CHEQUE

Service des Postes

PRIORITAIRE / PAR AVION

Bureau de dépôt

Date de dépôt

PARIS 8<sup>e</sup>

14-11-00

Timbre du bureau  
renvoyant l'avis

Destinataire de l'envoi (nom, adresse, pays de destination)

Christian Laroque - c/o Hans Jarkmann  
Dietmann Strasse 18-60593 Frankfurt AM  
A remplir par l'expéditeur AllemagneDép  
Indi  
30,  
751  
Tél.  
Fax

Service courrier

☐ envoi standard☐ colis postal☐ livre☐ sac M☐ PRIORITAIRE☐ ECONOMIQUE☒ n° de l'envoi☐ valeur déclarée  
montant :

0021

Services financiers

☐ mandat n°

montant :

A compléter à destination

L'envoi mentionné ci-dessus a été dûment :

☐ remis☐ payé☐ inscrit sur GCP

Date de signature

C. Laroque  
Cet avis pourra être signé par le destinataire ou par le  
le prévoyant, par une autre personne autorisée ou par  
le bureau de destination.

Renvoyer à

Nom ou raison sociale

Rue et n°

ALCATEL

DEPARTEMENT

Code postal et localité

PROPRIETE INDUSTRIELLE

30, avenue Kléber

75116 PARIS

VRA

F102531 ES/RBT

tion

60593 2 - 0537 - 71 - 60593 2 700 1500 - 217 - 01

Our ref. : 102531 / ES / eND

Subject : US Patent Application n° 09/605.881 filed on June 29, 2000

Dear Sir,

In order to comply with the US regulations, we formally send you herewith a complete US patent application (English specification and drawings as filed), and a new Declaration and Power of Attorney for the above referenced US patent application.

You are kindly requested to read them, then date and sign page 3 of the Declaration and Power of Attorney.

Yours faithfully,



Edmond SCIAUX  
Intellectual Property Department

Encl. : As mentioned above.



"Christian Laroque" <christian.laroque@anitesystems.de> on 15/12/2000  
12:17:56

To: Edmond SCIAUX/FR/ALCATEL@ALCATEL  
cc:  
Subject Brevets

---

Monsieur,

Vous m'avez envoye des papiers a signer concernant le depot  
de brevets aux USA.

Comme je l'ai deja indique il y a 6 mois a l'un de vos collegue, je refuse  
de  
signer ces papiers.

Alcatel refuse d'accorder a ses ex-employes les eventuelles primes de  
brevet  
ce que je trouve anormal. Que je sois ou non aujourd'hui salarie d'Alcatel  
ne change rien au fait que je suis l'inventeur du brevet dont Alcatel peut  
beneficie.

Veuillez m'indiquer si je dois vous renvoyer les papiers non signes ou non.

Sinceres salutations.

Christian Laroque

-----  
Christian Laroque

Phone: + 49-6151-872-5137

Anite Systems GmbH

Fax: + 49-6151-872-5151

Robert Bosch Str 7

D-64293 Darmstadt, Germany



- winmail.dat

Exhibit 7

07-07-2000 14:59 DE ALCATEL DPI

A 2 2022937860

P.03/03

ALCATEL

## MEMO

Pour : Xavier de FAY

ALCATEL BUSINESS SYSTEMS

Fax : +33 (0)1 55 66 43 91

FAX RECEIVED

De : Michèle BRUNEEL

Département Propriété Industrielle, Paris

Tél : 2155 64 14

JAN 30 2001

Fax : 2155 63 22

E-Mail : michele.bruneel@alcatel.fr

PETITIONS OFFICE

Date: 3 mai 2000

N/Réf. : 102531/ES/ESD/MBJ

Titre :	PROCEDURE DE CONTROLE DE L'EXPLOITATION D'UN ACCES, A SIGNALISATION DYNAMIQUE PAYANTE, RELATIF A UNE ARTERE RELIANT DES AUTOCOMMUTATEURS
Inventeurs	Christian LAROQUE Lahcen BENNAI

**Objet : Déclaration et Assignment pour les USA**

Veuillez trouver ci-joint la Déclaration et l'Assignment nécessaires au dépôt d'une demande de brevet aux Etats-Unis pour l'invention ci-dessus référencée.

Merci de nous retourner ces documents dûment remplis et signés par les inventeurs avant le  
31 MAI 2000

A l'adresse suivante :

COMPAGNIE FINANCIERE ALCATEL  
DPI  
30 avenue Kléber  
75116 PARIS

Exhibit 1

07-07-2000 15:00 DE ALCATEL DPI

A 2 2022987860

P.04/08

## Assignment

Whereas I/We **Christian LAROQUE**  
**Lahcen BENNAI**  
hereinafter called assignor(s), have invented certain improvements in

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JAN 30 2001

PETITIONS OFFICE

and executed an application for Letters Patent of the United States of America therefor identified by Attorney Docket No. **102531/ES/ESD**

Whereas, **ALCATEL**  
**54, rue La Boétie**  
**75008 PARIS**  
**FRANCE**

hereinafter called assignee,

desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and I/we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request my attorneys **SUGHRUE, MION, ZINN, MACPEAK & SEAS** of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3202 to insert here in parentheses (Application number \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known.

Date :

S/

Christian LAROQUEDate : **12.5.2000**

S/

Lahcen BENNAI

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

07-07-2000 15:00 DE ALCATEL DP1

A 2 0022937860

P.05/08

**French Language Declaration****Declaration and Power of Attorney for Patent Application****Déclaration et Pouvoirs pour Demande de Brevet****FAX RECEIVED****JAN 30 2001****French Language Declaration****PETITIONS OFFICE**

En tant que l'inventeur nommé ci-après, je déclare par le présent acte que:

As a below named inventor, I hereby declare that:

Mon domicile, mon adresse postale et ma nationalité sont ceux figurant ci-dessous à côté de mon nom.

My residence, post office address and citizenship are as stated next to my name.

Je crois être le premier inventeur original et unique (si un seul nom est mentionné ci-dessous), ou l'un des premiers co-inventeurs originaux (si plusieurs noms sont mentionnés ci-dessous) de l'objet revendiqué, pour lequel une demande de brevet a été déposée concernant l'invention de la description identifiée par le numéro de référence.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention in the specification identified by Docket No.

**102531/ES/ESD**

Je déclare par le présent acte avoir passé en revue et compris le contenu de la description ci-dessus, revendications comprises.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims.

Je reconnais devoir divulguer toute information pertinente à la brevetabilité, comme défini dans le Titre 37, § 1.56 du Code fédéral des réglementations.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

Je revendique par le présent acte avoir la priorité étrangère, en vertu du Titre 35, § 119(a)-(d) ou § 365(b) du Code des Etats-Unis, sur toute demande étrangère de brevet ou certificat d'inventeur ou, en vertu du Titre 35, § 365(a) du même Code, sur toute demande internationale PCT désignant au moins un pays autre que les Etats-Unis et figurant ci-dessous et, j'ai aussi indiqué ci-dessous toute demande étrangère de brevet, tout certificat d'inventeur ou toute demande internationale PCT ayant une date de dépôt précédant celle de la demande à propos de laquelle une priorité est revendiquée.

I hereby claim foreign priority under Title 35, United States Code, § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Prior foreign application(s) for which priority is claimed  
Demande(s) de brevet étrangère(s) antérieure(s) dont la priorité est revendiquée

(Number) (Numéro)	(Country) (Pays)	(Day/Month/Year Filed) (Jour/Mois/Année de dépôt)
99 08 499	FRANCE	01 JULY 1999

Prior foreign applications for which priority is not claimed  
Demande(s) de brevet étrangères antérieure(s) dont la priorité n'est pas revendiquée

(Number) (Numéro)	(Country) (Pays)	(Day/Month/Year Filed) (Jour/Mois/Année de dépôt)

87-87-2000 15:00 DE ALCATEL DPI

A 2 3822937860

P.05/88

**French Language Declaration**

Je revendique par le présent acte tout bénéfice, en vertu du Titre 35, § 119(c) du Code des Etats-Unis, de toute demande de brevet provisoire effectuée aux Etats-Unis et figurant ci-dessous.

I hereby claim the benefit under Title 35, United States Code, § 119(c) of any United States provisional application(s) listed below.

(Application No.)  
(No de demande)

(Filing Date)  
(Date de dépôt)

Je revendique par le présent acte tout bénéfice, en vertu du Titre 35, § 120 du Code des Etats-Unis, de toute demande de brevet effectuée aux Etats-Unis, ou en vertu du Titre 35, § 365(c) du même Code, de toute demande internationale PCT désignant les Etats-Unis et figurant ci-dessous et dans la mesure où l'objet de chacune des revendications de cette demande de brevet n'est pas divulgué dans la demande antérieure américaine ou internationale PCT, en vertu des dispositions du premier paragraphe du Titre 35, § 112 du Code des Etats-Unis. Je reconnais devoir divulguer toute information pertinente à la brevetabilité, comme défini dans le Titre 37, § 1.56 du Code fédéral des réglementations, dont j'ai pu disposer entre la date de dépôt de la demande antérieure et la date de dépôt de la demande nationale ou internationale PCT de la présente demande.

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

(Application No.)  
(NO de demande)

(Filing Date)  
(Date de dépôt)

(Status)(patented, pending, abandoned)  
(Statut)(breveté, en cours d'examen, abandonné)

Je déclare par le présent acte que toute déclaration ci-incluse est, à ma connaissance, véridique et que toute déclaration formulée à partir de renseignements ou de suppositions est tenue pour véridique; et de plus, que toutes ces déclarations ont été formulées en sachant que toute fausse déclaration volontaire ou son équivalent est passible d'une amende ou d'une incarcération, ou des deux, en vertu de la Section 1001 du Titre 18 du Code des Etats-Unis, et que de telles déclarations volontairement fausses risquent de compromettre la validité de la demande de brevet ou du brevet délivré à partir de celle-ci.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

07-07-2000 15:01 DE FLOATEL DPI

A 2 2022937860

P.07/08

## French Language Declaration

**POUVOIRS:** En tant que l'inventeur cité, je désigne par la présente l'(les) avocat(s) et/ou agent(s) suivant(s) pour qu'ils poursuive(nt) la procédure de cette demande de brevet et traite(nt) toute affaire s'y rapportant avec l'Office des brevets et des marques: (mentionner le nom et le numéro d'enregistrement).

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: (list name and registration number)

John H. Mion, Reg. No. 18,879; Thomas J. Macpeak, Reg. No. 19,292; Robert J. Seas Jr., Reg. No. 21,092; Darryl Meix, Reg. No. 23,063; Robert V. Sloan, Reg. No. 22,775; Peter D. Olcay, Reg. No. 24,513; J. Frank Osha, Reg. No. 24,625; Waddell A. Bigger, Reg. No. 24,861; Louis Gubiasky, Reg. No. 24,835; Neil B. Siegel, Reg. No. 25,200; David J. Cushing, Reg. No. 28,703; John R. Inge, Reg. No. 26,916; Joseph J. Ruch, Jr., Reg. No. 26,577; Sheldon I. Landsman, Reg. No. 25,430; Richard C. Turner, Reg. No. 29,710; Howard L. Bernstein, Reg. No. 25,665; Alan J. Kasper, Reg. No. 25,426; Kenneth J. Burchfiel, Reg. No. 31,333; Gordon Kit, Reg. No. 30,764; Susan J. Mack, Reg. No. 30,951; Frank L. Bernstein, Reg. No. 31,484; Mark Boland, Reg. No. 32,197; William H. Mandir, Reg. No. 32,156; Scott M. Daniels, Reg. No. 32,562; Brian W. Hannot, Reg. No. 32,778; Abraham J. Rosner, Reg. No. 33,276; Bruce H. Kramer, Reg. No. 33,725; Paul F. Neils, Reg. No. 33,102; and Brett S. Sylvester, Reg. No. 32,765; and Robert M. Masters, Reg. No. 35,603.

Adresser toute correspondance à:

Send Correspondence to:

SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC  
2100 Pennsylvania Avenue, N.W., Suite 800  
Washington, D.C. 20037-3213

Nom complet de l'unique ou premier inventeur	Full name of sole or first inventor (First Middle Last) Christian LAROQUE
Signature de l'inventeur	Inventor's signature
Date	Date
Domicile	Residence 92500 RUEIL MALMAISON FRANCE
Nationalité	Citizenship French
Adresse postale	Post Office Address 34, avenue du Mont Valérien 92500 RUEIL MALMAISON FRANCE
Nom complet du second co-inventeur, le cas échéant	Full name of second joint inventor, if any (First Middle Last) Lahcen BIENNAI
Signature du second inventeur	Second inventor's signature
Date	Date
Domicile	Residence 95100 ARGENTEUIL, FRANCE
Nationalité	Citizenship French
Adresse postale	Post Office Address 68, rue Félibou 95100 ARGENTEUIL, FRANCE

(Fournir les mêmes renseignements et la signature de tout co-inventeur supplémentaire.)

(Supply similar information and signature for third and subsequent joint inventors.)

07-07-2000 15:01 DE ALCATEL DPI

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P.08/08

Christian Laroque <christian.laroque@anitesystems.de> on 29/05/2000  
14:17:57

FAX RECEIVED

JAN 30 2001

PETITIONS OFFICE

To: Michele BRUNEEL/FR/ALCATEL@ALCATEL

cc:

Subject Brevets US

102 530 et 102 531

Au mois de février dernier, vous m'avez adressé un  
formulaire de déclaration et d'assignement concernant  
le dépôt d'une demande de brevet aux US.  
N/Ref : 102350/ES/ESD/MBJ

J'ai quitté le groupe Alcatel au mois d'août dernier, et ABS  
refuse de verser des primes aux salariés inventeurs ayant quitté le  
groupe.

Je ne vous ai donc pas renvoyé la déclaration  
et ne la renverrai pas.

J'ai reçu la semaine dernière une autre demande  
du même type, pour un autre brevet, mais cette  
fois la demande est venue directement d'ABS.

Je ne renverrai la non plus aucun papier tant que ABS  
ne consentira pas à me verser la prime qui m'est due.  
(c'est moi qui est fourni le travail qui a permis le  
dépôt du brevet, et je demande simplement à toucher  
les mêmes primes de brevet que celles qui sont reçues  
par les salariés du groupe).

Salutations.

-----  
Christian Laroque

Phone: + 49-6151-872-5137

Anite Systems GmbH

Fax: + 49-6151-872-5151

Robert Bosch Str 7

D-64293 Darmstadt, Germany

Exhibit 2



Appl. No. 09/605,881  
Declaration

Page 3

**Exhibit 3****Translation of email of May 29, 2000**

During this past February, you sent me declaration and assignment forms concerning the filing of a patent application in the US.

Yr. Ref: 102350/ES/ESD/MBJ

I left the Alcatel group last August, and ABS refuses to pay some bonuses to inventors who have left the group.

I have therefore not returned the declaration and will not return it.

I received another request of the same type, for another patent, last week but this request came directly from ABS.

I won't send back the papers as long as ABS won't agree to pay me the bonus that is due me. (I performed the work that permitted the filing of the patent, and I ask merely to receive the same patent bonuses as are received by employees of the group).

greetings.

24-01-2001 14:04 DE ALCATEL DPI

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ALCATEL

DTC  
Dec 10/20

Département Propriété  
Industrielle, Paris  
30, avenue Kléber  
75116 Paris - France  
Tél. : + 33 (0)1 40 67 63 00  
Fax : + 33 (0)1 40 67 64 84

FAX RECEIVED

JAN 30 2001

PETITIONS OFFICE

Mr Christian Laroque  
c. o. Mr Hans Partmann  
Dielmann Strasse 18  
60599 FRANKFURT AM  
Allemagne

Registered letter with advise of reception

Paris, 14 November 2000

Our ref. : 102531 / ES / eND

Subject : US Patent Application n° 09/605.881 filed on June 29, 2000

Dear Sir,

In order to comply with the US regulations, we formally send you herewith a complete US patent application (English specification and drawings as filed), and a new Declaration and Power of Attorney for the above referenced US patent application.

You are kindly requested to read them, then date and sign page 3 of the Declaration and Power of Attorney.

Yours faithfully,



Edmond SCIAUX  
Intellectual Property Department

Encl. : As mentioned above.

Exhibit 4

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102531/ES/ESD

ABSTRACT OF THE DISCLOSURE

To monitor the use of a chargeable dynamic signaling port of a trunk connecting two exchanges, in particular in connection with applications which communicate via exchanges and which are likely to require to use such ports, rights of use are assigned to each application enabling it either to have a port of this kind set up and then to use it, or only to use a port of this kind if it has already been set up.

102531/ES/ESD

METHOD OF MONITORING THE USE OF A CHARGEABLE DYNAMIC SIGNALING  
PORT OF AN INTER-EXCHANGE TRUNK

BACKGROUND OF THE INVENTION

Field of the invention

- 5 The invention relates to a method of monitoring the use of a chargeable dynamic signaling port of a trunk connecting exchanges in a telecommunications network.

Description of the prior art

- 10 The introduction of trunks connecting exchanges which have at least one chargeable dynamic signaling port leads to the need to be able to monitor the use of such ports so that those paying for their use can control their costs.. This was not the case previously, when the trunks between exchanges were systematically kept active, when they were in service, as was the case in particular in older synchronous time-division switching networks.

- 15 It has therefore become necessary to be able to monitor the use of such chargeable dynamic ports to prevent them being set up and used by applications, for example periodic maintenance or management applications, for non-urgent transmissions, possibly at low bit rates. Using ports set up in this way can hardly be economic.

20 SUMMARY OF THE INVENTION

- The invention therefore proposes a method of monitoring the use of a chargeable dynamic signaling port of a trunk connecting two exchanges, in particular in connection with applications which communicate via exchanges and which are likely to require to use such ports, in which method there is provision for assigning  
25 rights of use to each application enabling it either to have a port of this kind set up and then to use it or only to use a port of this kind if it has already been set up.

- According to one feature of the method according to the invention there is provision for immediately informing applications likely to require to use a chargeable dynamic signaling port that a port of this kind has been set up to enable said  
30 applications to use said port as fully as possible.

- According to one feature of the method according to the invention the right assigned to an application is monitored in the exchange initiating a call request to set up a call via a chargeable dynamic signaling port of this kind and the same application possibly has a different right according to the exchange from which the  
35 setting up of a call is initiated.

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According to one feature of the method according to the invention there is provision for assigning rights of use in time periods that can be changed.

The invention, its features and its advantages are explained in the following description, which is given with reference to the drawings listed below.

5 **BRIEF DESCRIPTION OF THE DRAWING**

Figure 1 is a block diagram of a telecommunications network structure with two exchanges.

Figure 2 is a block diagram of a port monitoring system as used by the monitoring method of the invention.

10 **DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT**

The method according to the invention of monitoring the use of ports is intended to be applied in the situation of a telecommunications network in which at least two exchanges, such as the two exchanges 1 and 1' shown diagrammatically in Figure 1, are connected by a trunk 2 which has ports at least some of which are of the chargeable and dynamic signaling type, such as the ports A1 and A'1, for example. Chargeable and dynamic signaling ports can be set up and deactivated on demand and as required. This is known in the art. In the context of the trunk 2, they can coexist with other ports which are set up permanently when they first enter service.

20 As a general rule the ports of the trunk 2 are used to set up calls, in particular voice and/or data calls, and to transmit signaling via circuits which constitute the trunk. Those circuits can be operated differently and possibly of different kinds. This is known in the art. Each exchange is assumed to have corresponding dedicated ports. In particular, it is usual for transmissions to be effected via the trunk 2 from one of the exchanges 1 or 1' or possibly from and/or to another exchange such as the exchange 1', for particular applications. Those applications can correspond to satisfying requirements specific to at least some users, for example a manager-secretary type application, periodic transmission of large volumes of data, etc. They can also correspond to tasks to be carried out which are specific to the network, for example user terminal supervision, call charging, operator terminal management, etc.

30 In the context of the method according to the invention, there is provision for assigning a right of use to each of the applications which may need to use a chargeable dynamic signaling port to communicate via a path using the trunk 2 and possibly via a chargeable dynamic signaling port of that trunk. For example, a path

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of this kind can be set up from a port 1m of the exchange 1' and via the two exchanges 1, 1' and the trunk 2 using the chargeable dynamic signaling port A1.

5 This right of use is assigned by an authority responsible for supervising the management of the exchanges. If necessary, the right in respect of a port can be assigned to only one of the two exchanges connected by the trunk. It can also be different for the same application, according to the exchange at which a request to use the port is formulated. In this example, and as shown diagrammatically in Figure 2, the rights of use assigned to the applications are stored in a database. They are preferably stored in the exchange(s) through which an application can initiate a call  
10 request to set up a call via a path using a chargeable dynamic signaling port.

The rights assigned to each application to use one or more chargeable dynamic signaling ports are stored in a database 3 which is accessible by the exchange(s) concerned. In a preferred embodiment of the invention a database 3 of this kind is individually associated with or integrated into each exchange and holds  
15 the data relating to the rights of the applications which can attempt to use an outgoing chargeable dynamic signaling port from the individually associated exchange.

In this example, an application can be authorized to use a chargeable dynamic signaling port for calls that it wishes to set up via the trunk from one or both  
20 of the two exchanges connected by the trunk, or not. There is provision for assigning rights to use a chargeable dynamic signaling port which can differ according to the application, one of these rights enabling setting up and use of a chargeable dynamic signaling port, for example, and another right, allowing a port of this kind to be used only if it has already been set up.

25 There is also provision for the setting up of a chargeable dynamic signaling port by an authorized application to lead to the creation of data to be communicated to applications which can then use their right to use a chargeable dynamic signaling port already set up at one or possibly both exchanges. There is also provision for this data to be used by applications waiting to transmit data via a port of this kind to  
30 ensure as complete as possible use of the traffic capabilities offered by the port during the time for which the port remains active. A chargeable dynamic signaling port remaining active is of course conditional on the existence of traffic via that port and the port is rendered inactive as soon as possible, with a delay for returning to the inactive state which can vary as a function of the application(s) which most recently  
35 use the port to transmit data.

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As symbolized in Figure 2, the method according to the invention is used at the time of each call request 4 to set up a call via a chargeable dynamic signaling port at the exchange 1, 1' or 1'' initiating the call request. An access right monitoring process 5 is then undertaken in that exchange as a function of the calling application and the call request is routed (6) via the intended chargeable dynamic signaling port, or not, according to the right assigned to the application, as stored in the database 3 for the exchange. Rejection (7) of a call set up request by the access right monitoring process 5 then leads either to the application having to wait, if it only has the right to use a chargeable dynamic signaling port already set up, or by routing of the waiting application to a different port.

Finally, there is also provision for the right of use assigned to an application to be subject to a time condition and therefore to be usable by the application only within a predetermined time period, in order to limit costs and/or regulate traffic. The right of the application(s) concerned is then restricted or cancelled outside the time periods for it.

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## THERE IS CLAIMED:

1. A method of monitoring the use of a chargeable dynamic signaling port of a trunk connecting two exchanges, in particular in connection with applications which communicate via exchanges and which are likely to require to use such ports, in which method there is provision for assigning rights of use to each application enabling it either to have a port of this kind set up and then to use it or only to use a port of this kind if it has already been set up.
2. The method claimed in claim 1 wherein there is provision for immediately informing applications likely to require to use a chargeable dynamic signaling port that a port of this kind has been set up to enable said applications to use said port as fully as possible.
3. The method claimed in claim 1 wherein the right assigned to an application is monitored in the exchange initiating a call request to set up a call via a chargeable dynamic signaling port of this kind and the same application possibly has a different right according to the exchange from which the setting up of a call is initiated.
4. The method claimed in claim 1 wherein there is provision for assigning rights of use in time periods that can be changed.



1/1

FIG. 1

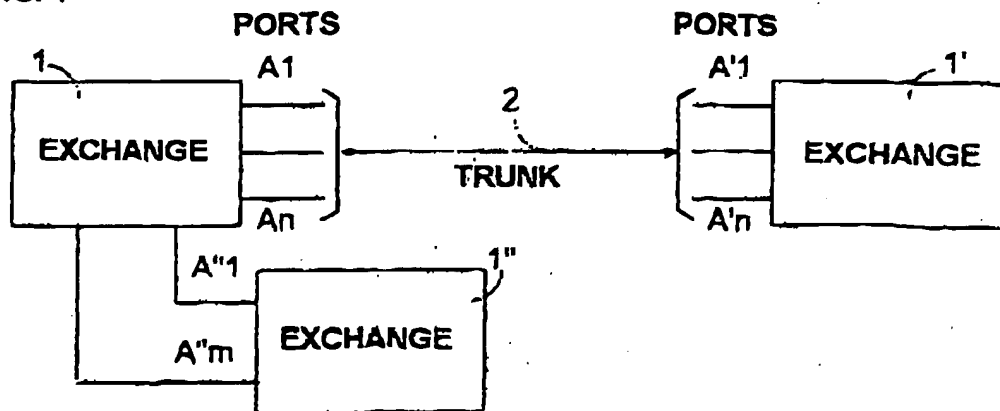
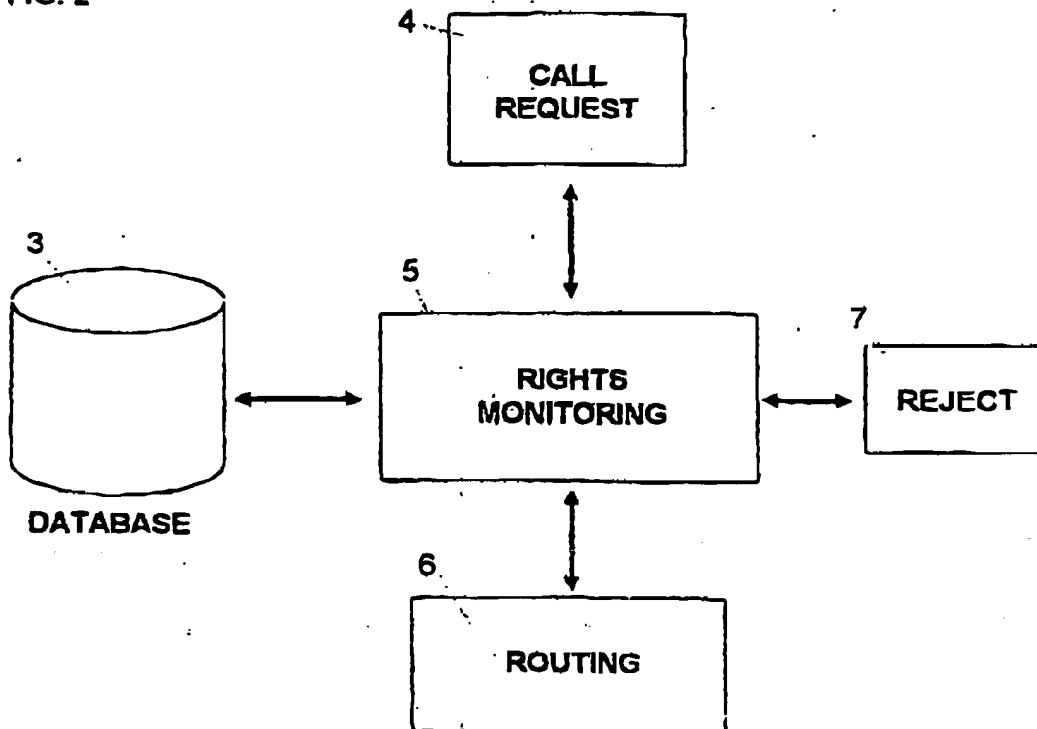


FIG. 2



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## Assignment

Whereas I/We **Christian LAROQUE**  
**Lahcen BENNAI**

hereinafter called assignor(s), have invented certain improvements in

and executed an application for Letters Patent of the United States of America therefor identified by Attorney Docket No. **102531/ES/ESD**

Whereas, **ALCATEL**  
**54, rue La Boétie**  
**75008 PARIS**  
**FRANCE**

hereinafter called assignee,

desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and I/we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request my attorneys **SUGHRUE, MION, ZINN, MACPEAK & SEAS** of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3202 to insert here in parentheses (Application number \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known.

Date : S/

\_\_\_\_\_  
Christian LAROQUE

Date : S/

\_\_\_\_\_  
Lahcen BENNAI

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

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**Declaration and Power of Attorney for Patent Application****Déclaration et Pouvoirs pour Demande de Brevet****French Language Declaration**

En tant que l'inventeur nommé ci-après, je déclare par le présent acte que:

As a below named inventor, I hereby declare that:

Mon domicile, mon adresse postale et ma nationalité sont ceux figurant ci-dessous à côté de mon nom.

My residence, post office address and citizenship are as stated next to my name.

Je crois être le premier inventeur original et unique (si un seul nom est mentionné ci-dessous), ou l'un des premiers co-inventeurs originaux (si plusieurs noms sont mentionnés ci-dessous) de l'objet revendiqué, pour lequel une demande de brevet a été déposée concernant l'invention de la description identifiée par le numéro de référence

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention in the specification identified by Docket No.

**102531/ES/ESD**

Je déclare par le présent acte avoir passé en revue et compris le contenu de la description ci-dessus, revendications comprises.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims.

Je reconnais devoir divulguer toute information pertinente à la brevetabilité, comme défini dans le Titre 37, § 1.56 du Code fédéral des réglementations.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

Je revendique par le présent acte avoir la priorité étrangère, en vertu du Titre 35, § 119(a)-(d) ou § 365(b) du Code des Etats-Unis, sur toute demande étrangère de brevet ou certificat d'inventeur ou, en vertu du Titre 35, § 365(a) du même Code, sur toute demande internationale PCT désignant au moins un pays autre que les Etats-Unis et figurant ci-dessous et, j'ai aussi indiqué ci-dessous toute demande étrangère de brevet, tout certificat d'inventeur ou toute demande internationale PCT ayant une date de dépôt précédant celle de la demande à propos de laquelle une priorité est revendiquée.

I hereby claim foreign priority under Title 35, United States Code, § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below, and have also identified below any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Prior foreign application(s) for which priority is claimed  
Demande(s) de brevet étrangère(s) antérieure(s) dont la priorité est revendiquée

(Number) (Numéro)	(Country) (Pays)	(Day/Month/Year Filed) (Jour/Mois/Année de dépôt)
99 08 499	FRANCE	01 JULY 1999

Prior foreign applications for which priority is not claimed  
Demande(s) de brevet étrangères antérieures dont la priorité n'est pas revendiquée

(Number) (Numéro)	(Country) (Pays)	(Day/Month/Year Filed) (Jour/Mois/Année de dépôt)

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Je revendique par le présent acte tout bénéfice, en vertu du Titre 35, § 119(c) du Code des Etats-Unis, de toute demande de brevet provisoire effectuée aux Etats-Unis et figurant ci-dessous.

I hereby claim the benefit under Title 35, United States Code, § 119(c) of any United States provisional application(s) listed below.

(Application No.)  
(No de demande)

(Filing Date)  
(Date de dépôt)

Je revendique par le présent acte tout bénéfice, en vertu du Titre 35, § 120 du Code des Etats-Unis, de toute demande de brevet effectuée aux Etats-Unis, ou en vertu du Titre 35, § 365(c) du même Code, de toute demande internationale PCT désignant les Etats-Unis et figurant ci-dessous et, dans la mesure où l'objet de chacune des revendications de cette demande de brevet n'est pas divulgué dans la demande antérieure américaine ou internationale PCT, en vertu des dispositions du premier paragraphe du Titre 35, § 112 du Code des Etats-Unis, je reconnais devoir divulguer toute information pertinente à la brevetabilité, comme défini dans le Titre 37, § 1.56 du Code fédéral des réglementations, dont j'ai pu disposer entre la date de dépôt de la demande antérieure et la date de dépôt de la demande nationale ou internationale PCT de la présente demande.

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

(Application No.)  
(NO de demande)

(Filing Date)  
(Date de dépôt)

(Status)(patented, pending, abandoned)  
(Statut)(breveté, en cours d'examen, abandonné)

Je déclare par le présent acte que toute déclaration ci-incluse est, à ma connaissance, véridique et que toute déclaration formulée à partir de renseignements ou de suppositions est tenue pour véridique, et de plus, que toutes ces déclarations ont été formulées en sachant que toute fausse déclaration volontaire ou non équivalente est passible d'une amende ou d'une incarcération, ou des deux, en vertu de la Section 1001 du Titre 18 du Code des Etats-Unis, et que de telles déclarations volontairement fausses risquent de compromettre la validité de la demande de brevet ou du brevet délivré à partir de celle-ci.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

24-01-2001 14:07 DE ALCATEL DPI

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**POUVOIRS:** En tant que l'inventeur cité, je désigne par la présente l'(les) avocat(s) et/ou agent(s) suivant(s) pour qu'ils poursuive(nt) la procédure de cette demande de brevet et traite(nt) toute affaire s'y rapportant avec l'Office des brevets et des marques: (mentionner le nom et le numéro d'enregistrement).

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: (list name and registration number)

John H. Mion, Reg. No. 18,879; Thomas J. Macpeak, Reg. No. 19,292; Robert J. Seas, Jr., Reg. No. 21,092; Darryl Moxie, Reg. No. 23,063; Robert V. Sloan, Reg. No. 22,775; Peter D. Olney, Reg. No. 24,513; J. Frank Osha, Reg. No. 24,625; Waddell A. Bleggart, Reg. No. 24,861; Louis Gubinsky, Reg. No. 24,835; Neil B. Siegel, Reg. No. 25,200; David I. Cushing, Reg. No. 28,703; John R. Inge, Reg. No. 26,916; Joseph J. Ruch, Jr., Reg. No. 26,577; Sheldon I. Landsman, Reg. No. 25,430; Richard C. Turner, Reg. No. 29,710; Howard L. Bernstein, Reg. No. 25,665; Alan J. Kasper, Reg. No. 25,426; Kenneth J. Burchfiel, Reg. No. 31,333; Gordon Kit, Reg. No. 30,764; Susan J. Mack, Reg. No. 30,951; Frank L. Bernstein, Reg. No. 31,484; Mark Boland, Reg. No. 32,197; William H. Mandir, Reg. No. 32,156; Scott M. Daniels, Reg. No. 32,562; Brian W. Harmon, Reg. No. 32,778; Abraham J. Rosner, Reg. No. 33,276; Bruce E. Kramer, Reg. No. 33,725; Paul P. Neils, Reg. No. 33,102; and Brett S. Sylvester, Reg. No. 32,765; and Robert M. Masters, Reg. No. 35,603.

Adresser toute correspondance à:

Send Correspondence to:  
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC  
2100 Pennsylvania Avenue, N.W., Suite 800  
Washington, D.C. 20037-3213

Nom complet de l'unique ou premier inventeur	Full name of sole or first inventor (First Middle Last) Christian LARQUE
Signature de l'inventeur	Signature
Domicile	Residence 92500 RUEIL MALMAISON FRANCE
Nationalité	Citizenship French
Adresse postale	Post Office Address 34, avenue de Mont Valérien 92500 RUEIL MALMAISON FRANCE
Nom complet du second co-inventeur, le cas échéant	Full name of second joint inventor, if any (First Middle Last) Lahcen BENNAJ
Signature du second inventeur	Second inventor's signature
Domicile	Residence 95100 ARGENTEUIL, FRANCE
Nationalité	Citizenship French
Adresse postale	Post Office Address 68, rue Félicien 95100 ARGENTEUIL, FRANCE

(Fournir les mêmes renseignements et la signature de tout co-inventeur supplémentaire.)

(Supply similar information and signature for third and subsequent joint inventors.)

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Nom complet du troisième co-inventeur, le cas échéant		Full name of third joint inventor, if any (First Middle Last)	
Signature du troisième l'inventeur	Date	Third inventor's signature	Date
Domicile		Residence	
Nationalité		Citizenship	
Adresse postale		Post Office Address	
Nom complet du quatrième co-inventeur, le cas échéant		Full name of fourth joint inventor, if any (First Middle Last)	
Signature du quatrième l'inventeur	Date	Fourth inventor's signature	Date
Domicile		Residence	
Nationalité		Citizenship	
Adresse postale		Post Office Address	
Nom complet du cinquième co-inventeur, le cas échéant		Full name of fifth joint inventor, if any (First Middle Last)	
Signature du cinquième l'inventeur	Date	Fifth inventor's signature	Date
Domicile		Residence	
Nationalité		Citizenship	
Adresse postale		Post Office Address	
Nom complet du sixième co-inventeur, le cas échéant		Full name of sixth joint inventor, if any (First Middle Last)	
Signature du sixième l'inventeur	Date	Sixth inventor's signature	Date
Domicile		Residence	
Nationalité		Citizenship	
Adresse postale		Post Office Address	

24-01-2001 14:08 DE ALCATEL DPI

A 20012022937860

P.15/17

Nom complet du septième co-inventeur, le cas échéant	Full name of seventh joint inventor, if any (First Middle Last)
Signature du septième l'inventeur	Seventh inventor's signature
Date	Date
Domicile	Residence
Nationalité	Citizenship
Adresse postale	Post Office Address
Nom complet du huitième co-inventeur, le cas échéant	Full name of eighth joint inventor, if any (First Middle Last)
Signature du huitième l'inventeur	Eighth inventor's signature
Date	Date
Domicile	Residence
Nationalité	Citizenship
Adresse postale	Post Office Address
Nom complet du neuvième co-inventeur, le cas échéant	Full name of ninth joint inventor, if any (First Middle Last)
Signature du neuvième l'inventeur	Ninth inventor's signature
Date	Date
Domicile	Residence
Nationalité	Citizenship
Adresse postale	Post Office Address
Nom complet du dixième co-inventeur, le cas échéant	Full name of tenth joint inventor, if any (First Middle Last)
Signature du dixième l'inventeur	Tenth inventor's signature
Date	Date
Domicile	Residence
Nationalité	Citizenship
Adresse postale	Post Office Address

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**FRANCE** ☐ **PAIEMENT / DESCRIPTION D'UN MANDAT SUR CHEQUE** **Service des Postes PRIORITAIRE / PAR AVION**

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**Christian Laroque - c/o Hans Karling**  
**Dickmann Strasse 12-60593 Frankfurt A7**  
 A remplir par l'expéditeur: **Allemagne**

Dép. Ind. 30 751 Tél. Fax

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 Date de signature: **14-11-00** **E. Sciaux**

Cher point de vente, vous êtes informé que le dépôt de votre mandat est en cours de traitement. Le présent, par une autre personne autorisée ou par le titulaire du mandat de destination.

Nom ou raison sociale: **ALCATEL DEPARTEMENT PRODUITS INDUSTRIELS**  
 Rue et n°: **30 avenue Kléber**  
 Code postal et ville: **75116 PARIS** **FRA**

Remarque: **L**

TE102531 ES/NBT

Our ref. : 102531 / ES / eND

Subject : US Patent Application n° 09/605.881 filed on June 29, 2000

Dear Sir,

In order to comply with the US regulations, we formally send you herewith a complete US patent application (English specification and drawings as filed), and a new Declaration and Power of Attorney for the above referenced US patent application.

You are kindly requested to read them, then date and sign page 3 of the Declaration and Power of Attorney.

Yours faithfully,



Edmond SCIAUX  
Intellectual Property Department

Encl. : As mentioned above.

Exhibit 5



24-01-2001 14:09 DE ALCATEL DPI

A 20012022937860

P.17/17



"Christian Laroque" <christian.laroque@anitesystems.de> on 15/12/2000  
12:17:56

To: Edmond SCIAUX/FR/ALCATEL@ALCATEL  
cc:  
Subject: Brevets

FAX RECEIVED

JAN 30 2001

PETITIONS OFFICE

Monsieur,

Vous m'avez envoye des papiers a signer concernant le depot  
de brevets aux USA.

Comme je l'ai deja indique il y a 6 mois a l'un de vos collegue, je refuse  
de  
signer ces papiers.

Alcatel refuse d'accorder a ses ex-employees les eventuelles primes de  
brevet  
ce que je trouve anormal. Que je sois ou non aujourd'hui salarie d'Alcatel  
ne change rien au fait que je suis l'inventeur du brevet dont Alcatel peut  
beneficie.

Veuillez m'indiquer si je dois vous renvoyer les papiers non signes ou non.

Sinceres salutations.

Christian Laroque

-----  
Christian Laroque  
Anite Systems GmbH  
Robert Bosch Str 7  
D-64293 Darmstadt, Germany

Phone: + 49-6151-872-5137

Fax: + 49-6151-872-5151

 -winmail.dat

Exhibit 6

Appl. No. 09/605,881  
Declaration

Page 4

**Exhibit 7****Translation of email of December 15, 2000**

Sir,

You have sent me papers to sign concerning the patent applications in the USA.

As I have already indicated 6 months ago to one of your colleagues, I refuse to sign the papers.

Alcatel refuses to give potential patent bonuses to its ex-employees which I find abnormal. That I am or am not today on Alcatel's payroll does not change the fact that I am the inventor of the patent of which Alcatel can benefit.

Please let me know whether or not I should return the unsigned papers to you.

Very truly yours,

Christian Laroque

03 308 6916

\*\*\*\*\*  
\*\*\* RX REPORT \*\*\*  
\*\*\*\*\*

RECEPTION OK

TX/RX NO	5803
CONNECTION TEL	202 298 7860
CONNECTION ID	
START TIME	01/30(TU)13:22
USAGE TIME	09'23"
PGS.	32
RESULT	OK

36

**PLEASE STAMP AND RETURN TO BOX 235X****PATENT APPLICATION****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Christian LAROQUE et al

Attorney Docket Q59841

**FAX RECEIVED**

Appln. No.: 09/605,881

Group Art Unit:

**JAN 30 2001**

Filed: June 29, 2000

Examiner:

**PETITIONS OFFICE****For: METHOD OF MONITORING THE USE OF A CHARGEABLE DYNAMIC  
SIGNALING PORT OF AN INTER-EXCHANGE TRUNK**

Paper(s) entitled:

**RENEWED PETITION UNDER 37 CFR 1.47(a) IN RESPONSE TO DECISION  
MAILED OCTOBER 25, 2000**

1. Renewed Petition Under 37 C.F.R. § 1.47(a) in Response to Decision Mailed October 25, 2000
2. Petition for Extension of Time (Dupl) w/PTO Check
3. Declaration w/Exhibits

**RECEIVED BY THE PATENT OFFICE  
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC**

Docket No: Q59841

Attorney: DJC:kjc

Filed: January 25, 2001



**PATENT APPLICATION****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Christian LAROQUE et al

Attorney Docket Q59841

**FAX RECEIVED**

Appl. No.: 09/605,881

Group Art Unit:

JAN 30 2001

Filed: June 29, 2000

Examiner:

**PETITIONS OFFICE**

For: **METHOD OF MONITORING THE USE OF A CHARGEABLE DYNAMIC SIGNALING  
PORT OF AN INTER-EXCHANGE TRUNK**

**LETTER****OFFICE OF PETITIONS**

Assistant Commissioner for Patents

Box DAC

Washington, D.C. 20231

Sir:

On January 25, 2001, the following papers were filed in the United States Patent and Trademark Office via the Patent Office Mail Room. A copy of the stamped Mail Room receipt verifying the filing is attached.

1. Renewed Petition Under 37 C.F.R. § 1.47(a) in Response to Decision Mailed October 25, 2000
2. Petition for Extension of Time w/PTO Check
3. Declaration w/Exhibits

However, it was discovered that there was an error in the Declaration due to a clerical error in our office. To avoid any confusion, please replace the attached papers, including a new Declaration with Exhibits for review.

Respectfully submitted,



David J. Cushing

Registration No. 28,703

SUGHRUE, MION, ZINN,  
MACPEAK & SEAS, PLLC  
2100 Pennsylvania Avenue, N.W.  
Washington, D.C. 20037-3202  
Telephone: (202) 293-7060  
Facsimile: (202) 293-7860  
Date: January 30, 2001

PLEASE STAMP AND RETURN TO BOX 235X

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Christian LAROQUE et al

Appln. No.: 09/605,881

Filed: June 29, 2000

Attorney Docket Q59841

Group Art Unit:

Examiner:

FAX RECEIVED

JAN 30 2001

PETITIONS OFFICE

For: METHOD OF MONITORING THE USE OF A CHARGEABLE DYNAMIC SIGNALING  
PORT OF AN INTER-EXCHANGE TRUNK

Paper(s) entitled:

1. Letter w/copy of stamped Mail Room Receipt
2. Renewed Petition Under 37 C.F.R. § 1.47(a) in Response to Decision Mailed October 25, 2000
3. Declaration w/Exhibits

RECEIVED BY THE PATENT OFFICE  
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC

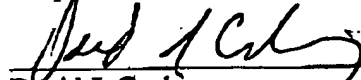
Docket No: Q59841

Attorney: DJC:kjc

Filed: January 30, 2001

I hereby certify that the above papers were facsimile transmitted to the Petitions  
Office at the Patent and Trademark Office on January 30, 2001.

Respectfully submitted,



David J. Cushing

Registration No. 28,703

SUGHRUE, MION, ZINN,  
MACPEAK & SEAS, PLLC  
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LAW OFFICES  
**SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC**  
2100 PENNSYLVANIA AVENUE, N.W.  
WASHINGTON, DC 20037-3213  
TELEPHONE (202) 293-7060  
FACSIMILE (202) 293-7860

**FACSIMILE COVER SHEET**

Date: January 30, 2001

To: Latrice Bond - Office of Petitions

Of: United States Patent and Trademark Office

From: David J. Cushing

No. of Pages (including cover sheet): ~~31~~ 32

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Your ref.: 09/605,881

Our ref.: Q59841

Yes - Send Cover Sheet:

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